# Priority Habitat Areas Within Tier 1 and Tier 2 Watersheds

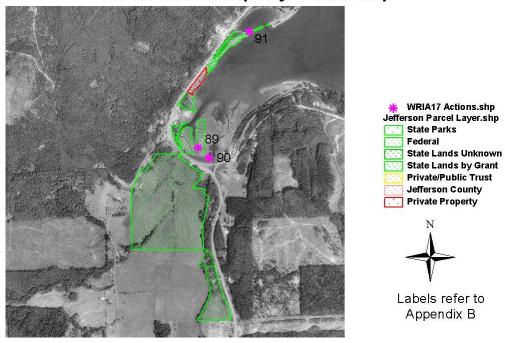
The highest priority for the HCCC Salmon Habitat Recovery Strategy is to protect and restore Endangered Species Act-listed salmon habitats, as well as the watershed processes that support and maintain those habitats. The following maps were constructed using Washington Department of Fish and Wildlife SalmonScape data, updated in 2003. Priority 1 habitat areas within individual watersheds were allocated based on current, presumed, and historic distributions of HC/ESJF summer chum salmon, Puget Sound chinook salmon, and bull trout. Priority 2 habitat areas were allocated based on current distributions of other anadromous (non-cutthroat) salmonids.

TIER I Watersheds						
WRIA 17:	WRIA 16:	WRIA 15:				
<ul> <li>Salmon/Snow</li> </ul>	<ul> <li>Dosewallips</li> </ul>	Union				
Big Quilcene	<ul> <li>Duckabush</li> </ul>	Tahuya				
-	Hama Hama	·				
	Skokomish					
	TIER 2 Watersh	eds				
WRIA 17:	WRIA 16:	WRIA 15:				
Chimacum	Lilliwaup	Dewatto				
Little Quilcene		Big Anderson				
		Big Beef				

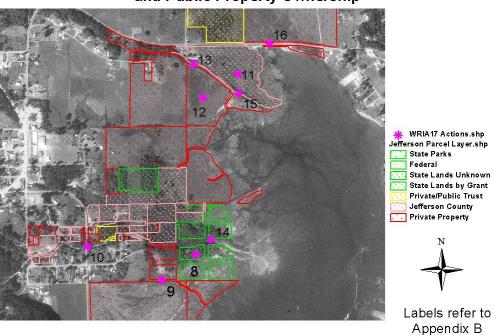
	Priority Freshwater Habitat Areas							
	TIER 1	TIER 2	TIER 3					
Priority-1	<ul> <li>Listed species distribution</li> <li>Contributing processes to P-1 segments</li> </ul>	<ul> <li>Listed species distribution</li> <li>Contributing processes to P-1 segments</li> </ul>						
Priority-2	<ul> <li>Other anadromous salmonid segments not identified in P-1</li> <li>Contributing processes to P-2 segments</li> </ul>	<ul> <li>Other anadromous salmonid segments not identified in P-1</li> <li>Contributing processes to P-2 segments</li> </ul>	<ul> <li>Other anadromous salmonid segments not identified in P-1</li> <li>Contributing processes to P-2 segments</li> </ul>					
Priority-3	Other freshwater habitat	Other freshwater habitat	Other freshwater habitat					

#### **Nearshore / Estuary Projects**

# Snow/Salmon Estuary Recommendations and Public Property Ownership

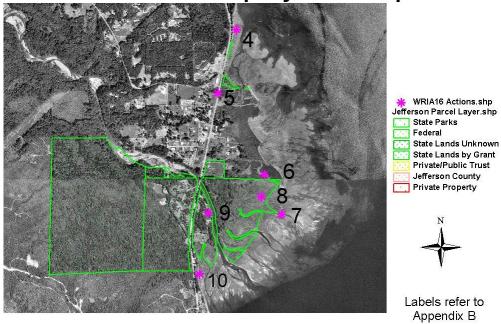


Big and Little Quilcene Estuary Recommendations and Public Property Ownership

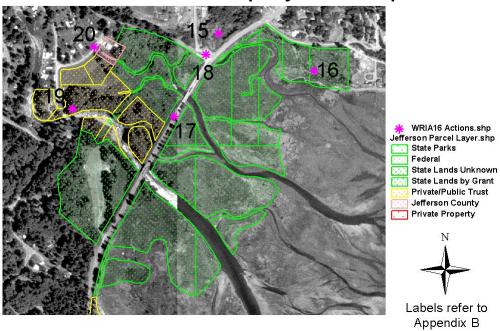


Nearshore/Estuary Projects 1

Dosewallips Estuary Recommendations and Public Property Ownership



# Duckabush Estuary Recommendations and Public Property Ownership



Nearshore/Estuary Projects 2

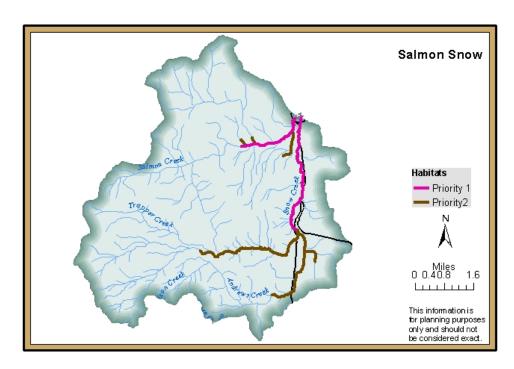
Hood Canal Coordinating Council Salmon Habitat Recovery Strategy, Version 03-2004 Appendix A

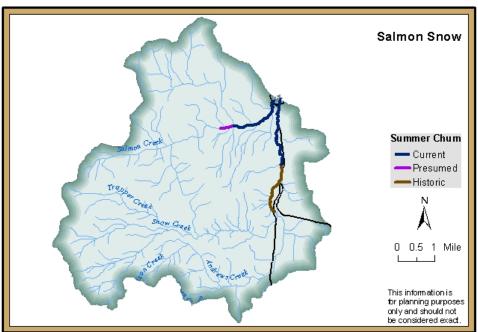
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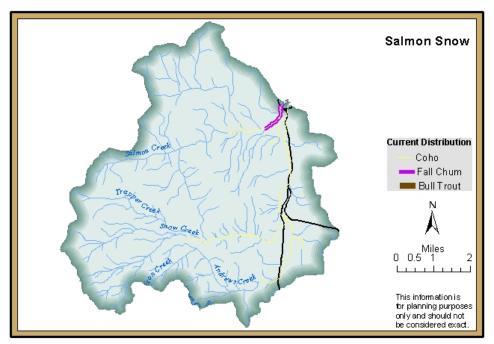
Nearshore/Estuary Projects 3

## Watershed Projects (Tier I)

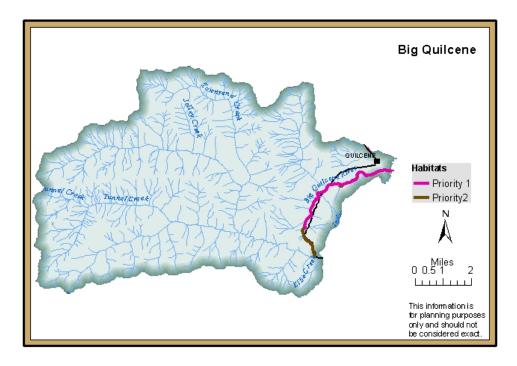
#### Salmon / Snow Creeks

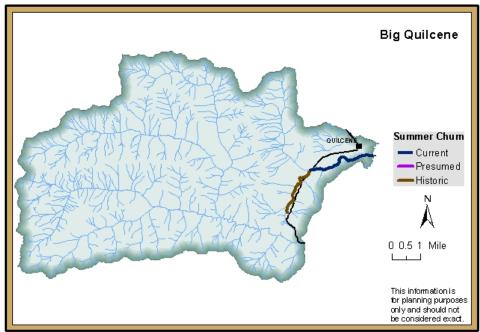


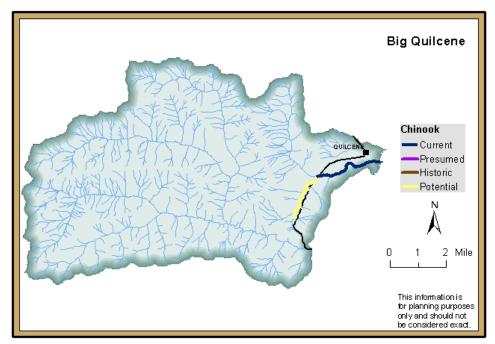


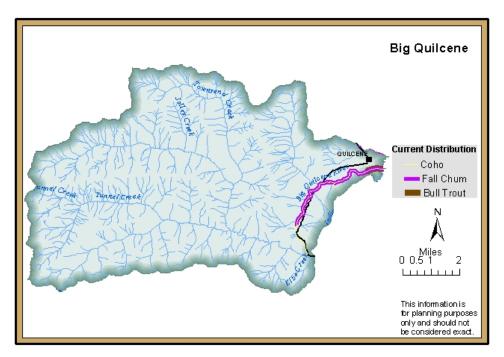


## Big Quilcene River

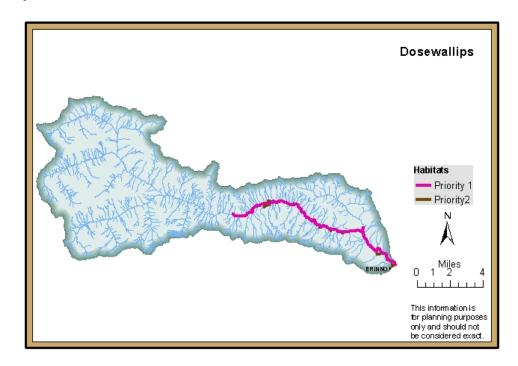


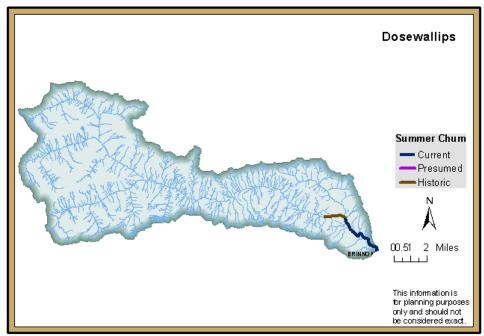


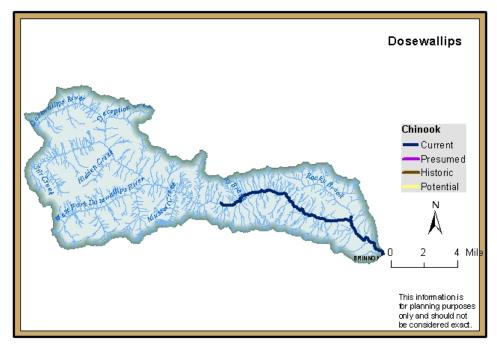


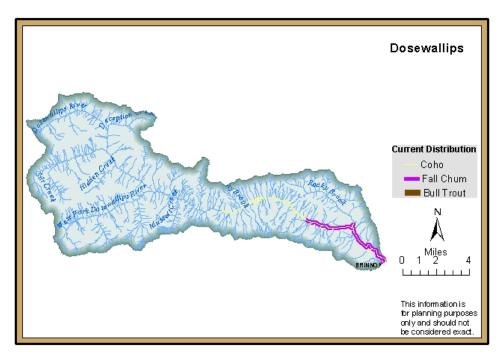


## Dosewallips River

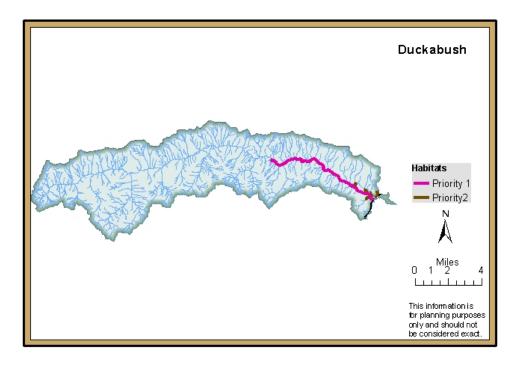


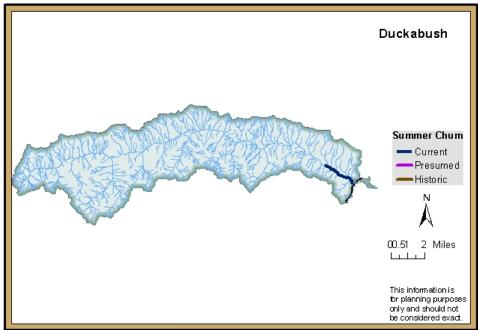


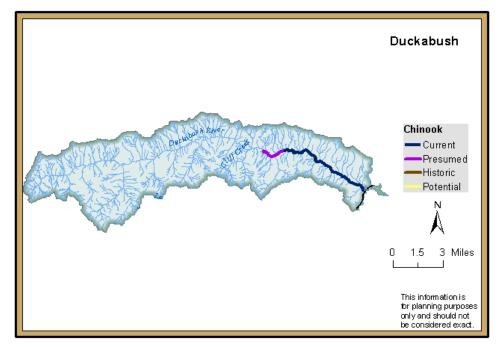


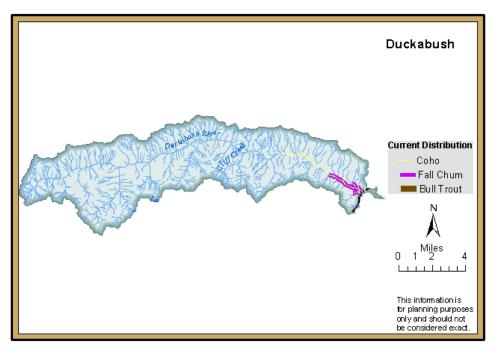


#### **Duckabush River**

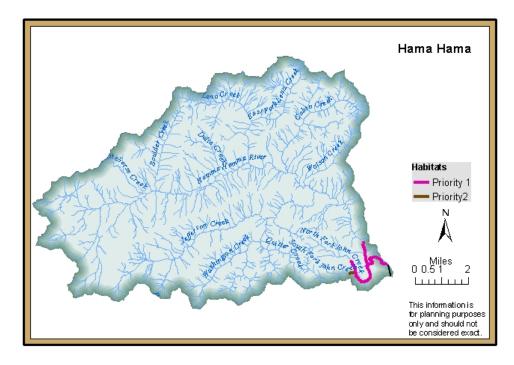


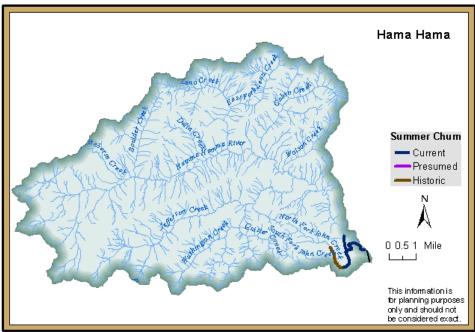


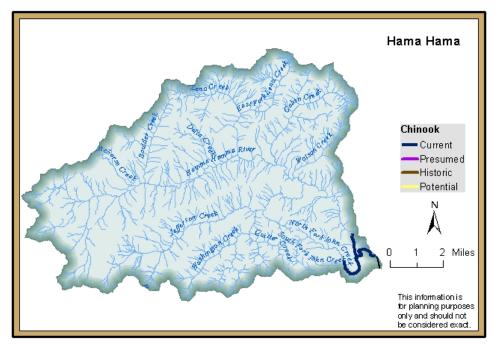


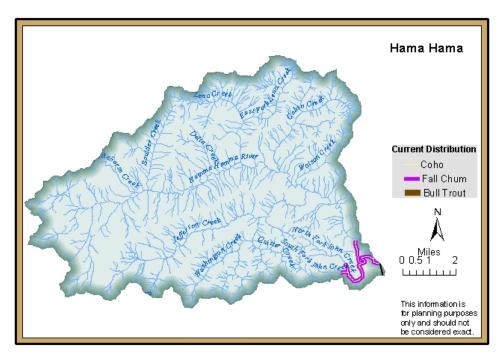


#### Hama Hama River

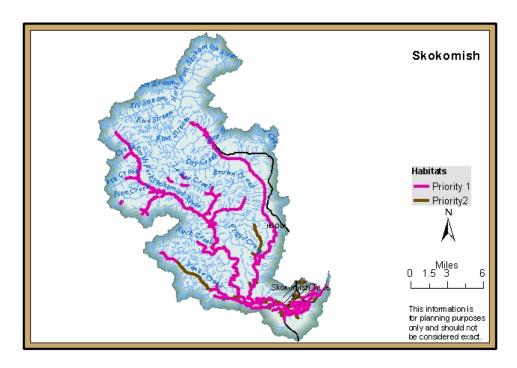


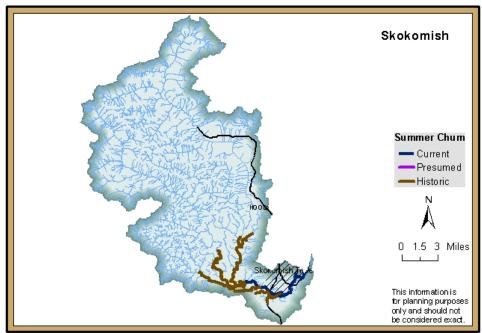


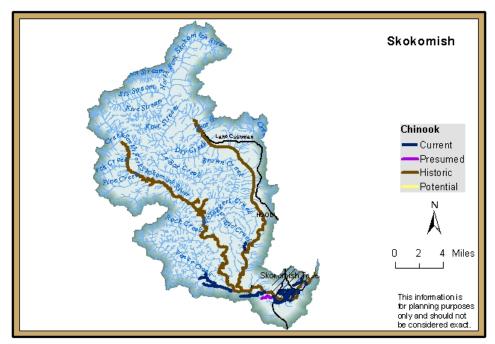


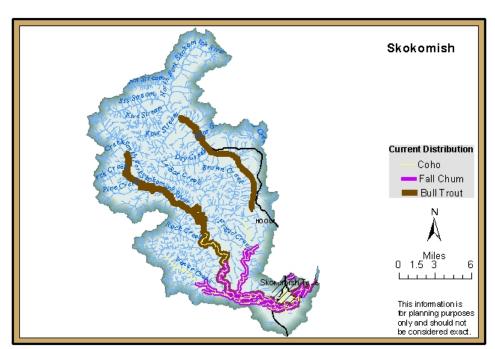


#### Skokomish River

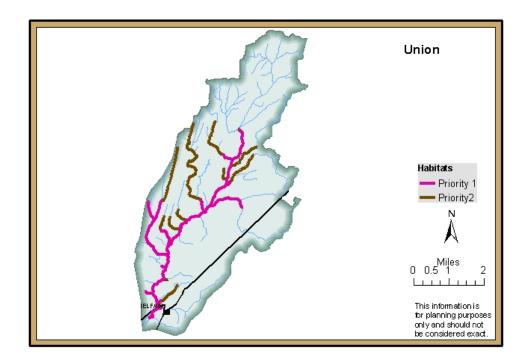


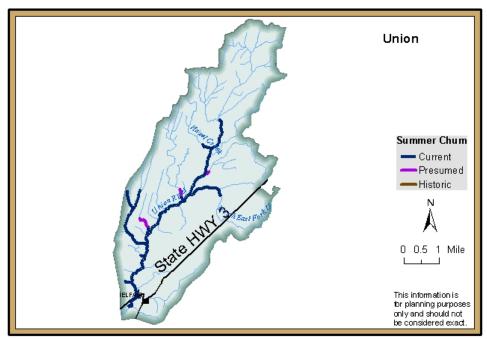


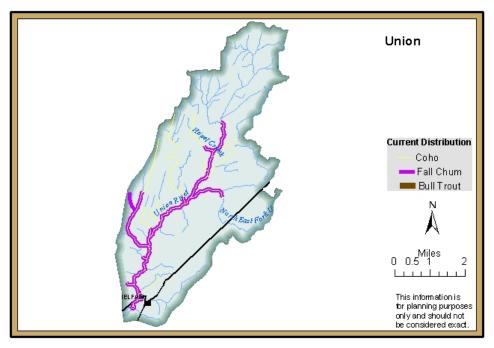




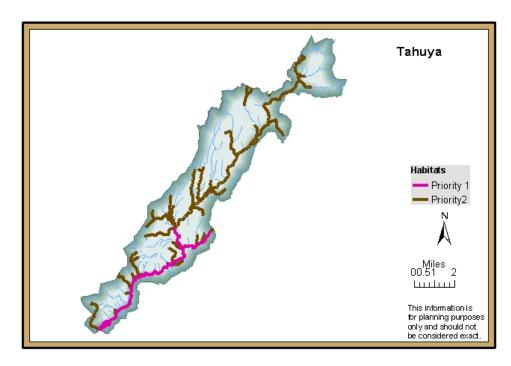
#### **Union River**

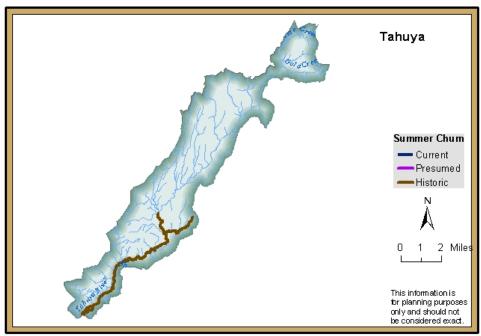


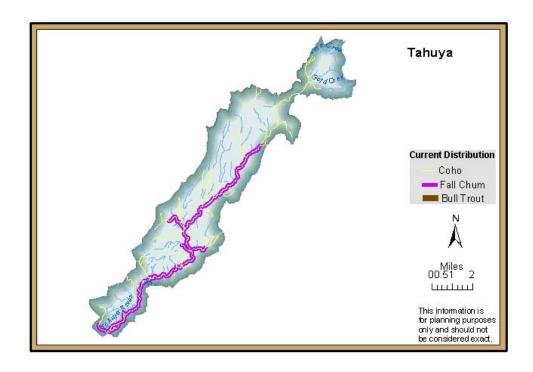




## Tahuya River





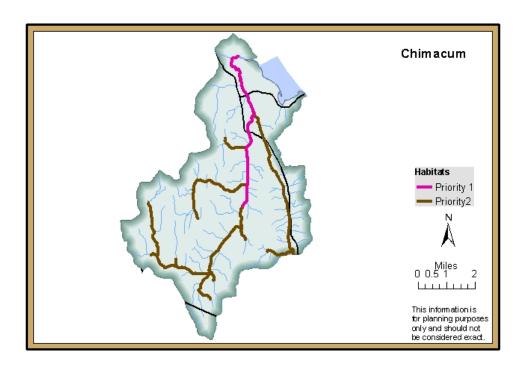


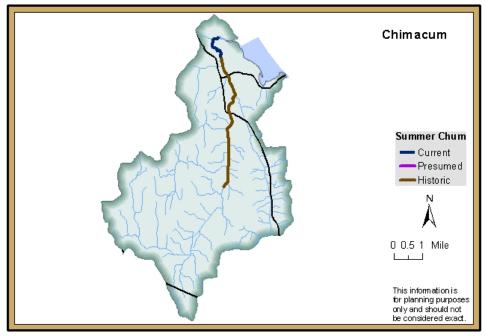
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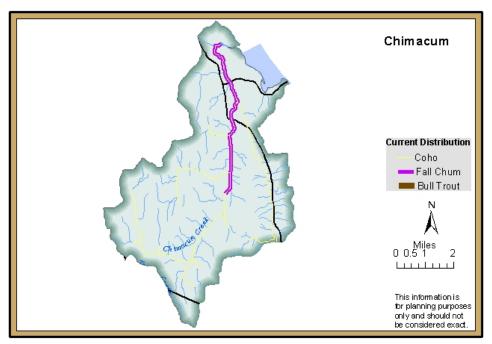
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## **Watershed Projects (Tier II)**

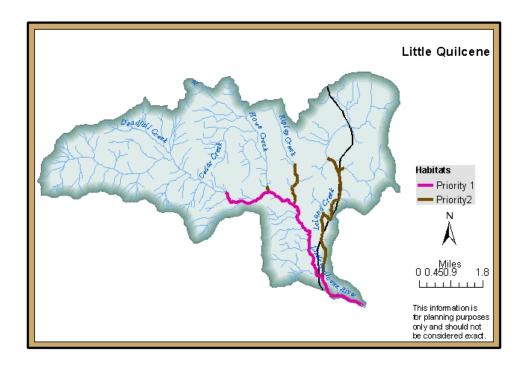
#### Chimacum Creek

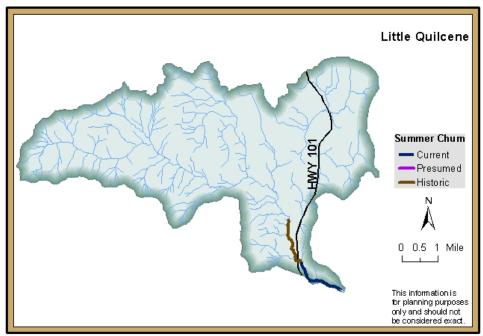


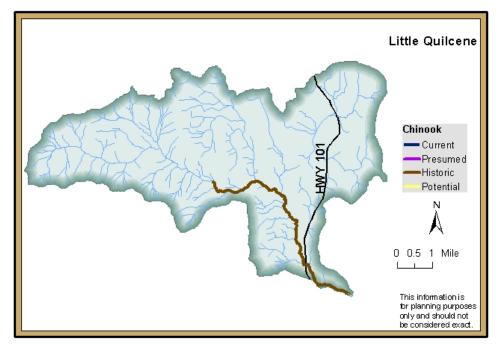


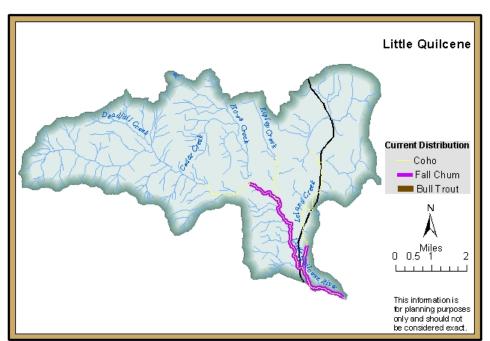


#### Little Quilcene River

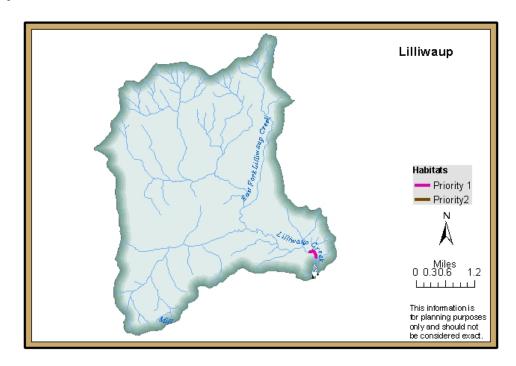


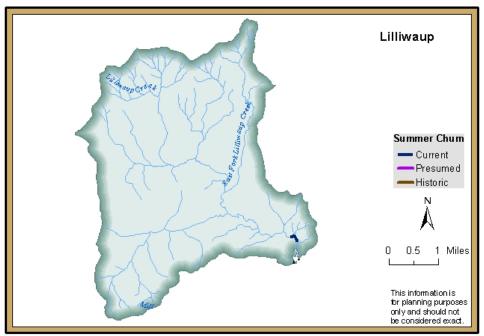


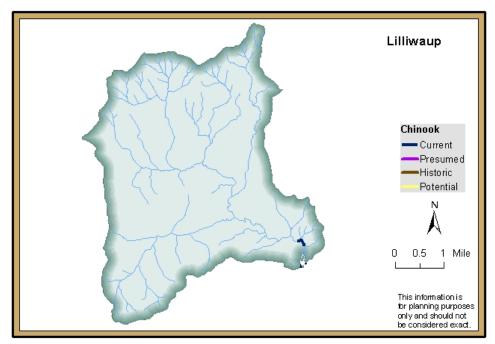


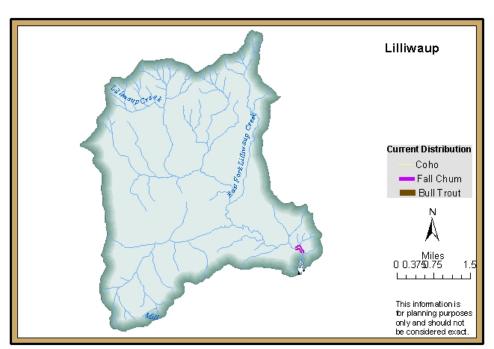


#### Lilliwaup Creek

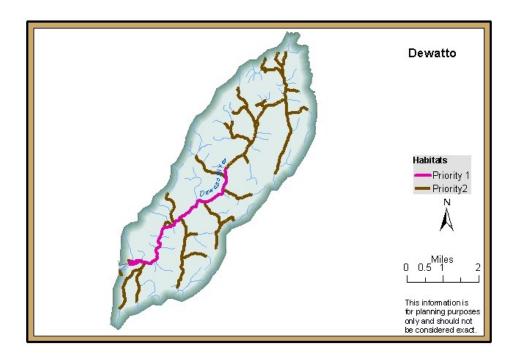


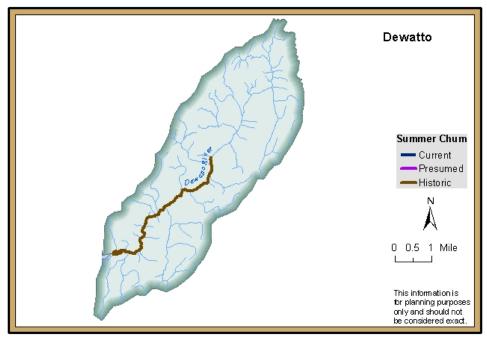


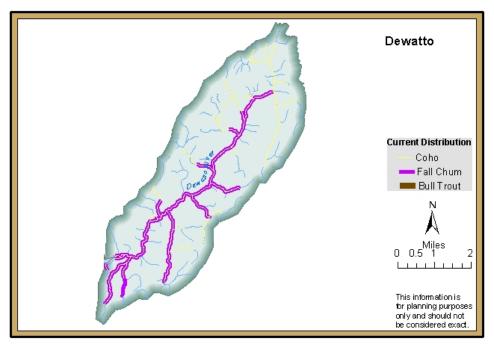




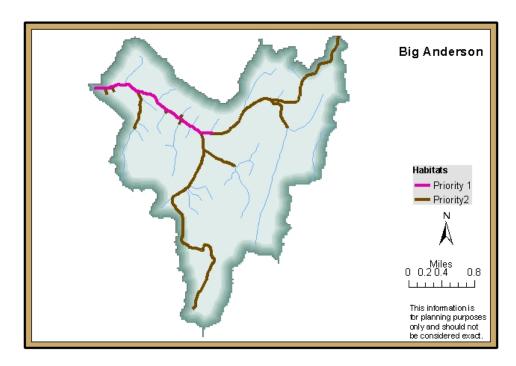
#### Dewatto River

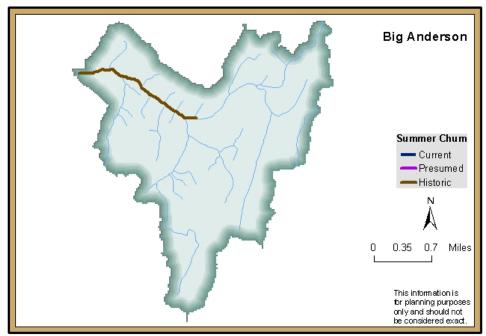


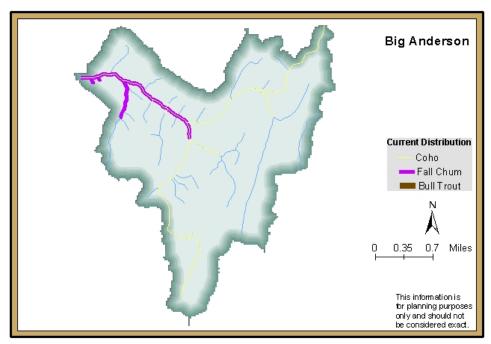




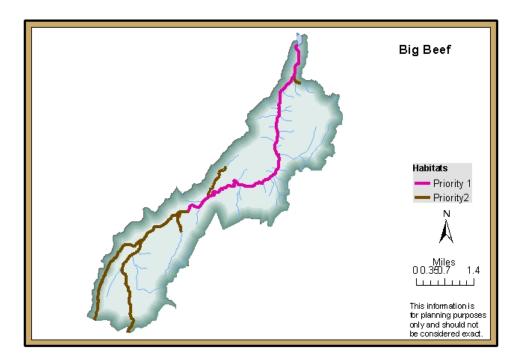
#### Big Anderson Creek

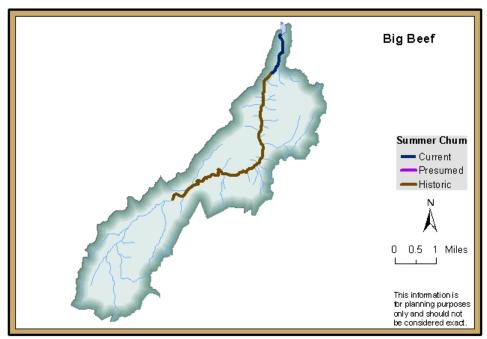


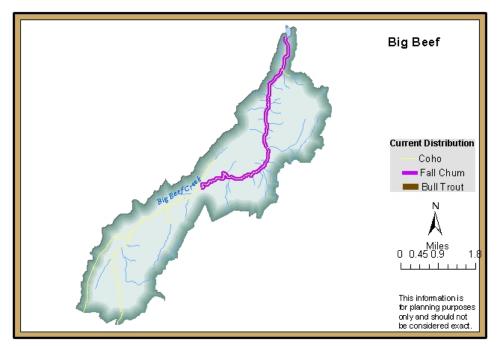




## Big Beef Creek







# Prioritized Nearshore Action Recommendations for Tier One and Two Watersheds in the HCCC Lead Entity Region Version 12.12.03

Numerous nearshore action recommendations were developed for the Hood Canal Coordinating Council Lead Entity Region through the Limiting Factors Analyses (LFA) for WRIAs 17, 16, and 15/14 by the Washington State Conservation Commission and the Technical Advisory Groups (TAG.) These actions are recommended to help achieve salmon recovery, taking into account estuarine and nearshore processes and functions. Multiple individuals were present throughout each of the LFA WRIA processes, ensuring consistency in approach. The TAG accepted the task of prioritizing action recommendations for the nearshore by developing criteria to guide the assignment of values to each of four parameters. The parameters used in the LFA process include proximity to priority watersheds as assigned by the HCCC Salmon Habitat Recovery Strategy, spatial scale, temporal scale, and ecological scale.

Revisions to the Strategy included adopting action recommendations from the LFAs. Since the Strategy has it's own hierarchy for assigning the proximity criteria, that data was dropped from the LFA approach, leaving three parameters. These nearshore recommendations and their parameter values are presented below for Tier 1 and Tier 2 watersheds only. The remaining recommendations can be found in the LFAs. The recommendations for each estuary and the associated nearshore corridor are broken into three bins of decreasing priorities.

#### Spatial Scale, maximum 5 points

The spatial scale of the recommendation and its associated benefits was evaluated as follows:

- The action received the maximum of **5 points** if the project protected and/or restored greater than 10 acres of habitat.
- The action received 4 points if the action protected and/or restored 5 to 10 acres of habitat.
- The action received 3 points if the action protected and/or restored 2 to 5 acres of habitat.
- The action received **2 points** if the project protected and/or restored ½ to 2 acres of habitat.
- The action received **one point** if the project protected and/or restored less than ½ acre of habitat.

#### **Ecological Scale, maximum 5 points**

The ecological scale was designed to evaluate impacts to nearshore processes. If the action addressed multiple processes, species and life histories, it received a higher value. For example, if an action recommendation involved estuary restoration that would affect both nearshore and riverine processes, such as dike removal in the lower floodplain and estuary, it received a higher score than one

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that involved fewer processes, such as the removal of individual creosoted pilings, which systematically received one point.

#### **Temporal Scale, maximum 3 points**

The temporal scale was designed to evaluate the benefit of the recommended action over time. If the action recommendation restored a nearshore process, which is long term by nature, it received a higher score than a project that requires a lot of maintenance.

#### General, Basin-wide Recommendations

In addition to the site-specific recommendations, there are some general basinwide recommendations that should be considered when determining nearshore restoration actions to pursue or when making policy and/or regulatory decisions. These include:

- Protection/restoration of sediment sources/naturally eroding bluffs
- Protection/restoration of estuaries and other salt marsh habitats
- Protection/restoration of riparian function
- · Removal of intertidal fill
- Proper treatment of stormwater and wastewater
- Removal of creosoted pilings
- · Consolidation of docks and rail launches
- Soft bank technology to replace armored banks

Waterbody	ld	Action recommendation	Ecology photo reference	Spatial scale	Ecological scale	Time scale	Sum
Calman (Car	00	Remove railroad grade, fill, and levees along estuary to restore salt marsh					42
Salmon/Snow	89	and tide flats  Remove part of the railroad grade to open up a salt marsh to tidal action for		5	5	3	13
Salmon/Snow	88	better access for fish		3	4	3	10
Salmon/Snow	91	Remove railroad grade and road fill between ponds to open up tidal flow		3	3	3	9
Salmon/Snow	90	Control exotic vegetation		4	2	2	8
				·	-	_	
Quilcene Bay	8	Remove dikes on WDFW property on the Big Quilcene River		5	5	3	13
		Purchase properties and remove dikes south of the Big Quilcene River to					
Quilcene Bay	9	restore salt marsh habitat  Restore sinuosity in the Big Quilcene River in the historical tidally influenced		5	5	3	13
Ouileana Bay	10	area		5	E	3	10
Quilcene Bay Quilcene Bay	10 11	Remove the left bank dike along the Little Quilcene River and nearshore		5	5 5	3	13 13
Quilcerie Bay	- 11	Purchase conservation easement and set back right bank dike along the		5	3	3	13
		nearshore associated with the Little Quilcene River to restore salt marsh					
Quilcene Bay	12	habitat		5	5	3	13
		Restore sinuosity in the Little Quilcene River in the historical tidally			-	-	
Quilcene Bay	13	influenced area		5	5	3	13
Quilcene Bay	14	Remove artificially aggraded delta cone at mouth of Big Quilcene River		4	5	3	12
Quilcene Bay	15	Remove artificially aggraded delta cone on Little Quilcene River		4	5	3	12
		Replace Donovan Ck. Culvert at mouth with an appropriate alternative to					
Quilcene Bay	16	restore estuary function		5	5	2	12
		Remove landfill and bulkhead to restore historic saltmarsh and intertidal					
Quilcene Bay	17	habitat between Boat Haven Marina and Indian George Creek.		5	4	3	12
0 " 5		Acquire and remove fill area slated for development along the east side of					
Quilcene Bay	18	Quilcene Bay  Remove abandoned creosoted RR pilings in Quilcene Bay particularly south		3	3	3	9
Quilcene Bay	19	of Quilcene along W side of Bay		2	3	3	8
Quilcerie Bay	19	or Quilceric along W side of Bay		2	3	3	0
Dosewallips	9	Remove dikes in vicinity of mainstem Dosewallips River and estuary	103640	5	5	3	13
		Remove dike between Wolcott Slough and the Dose mainstem on WSP					
Dosewallips	8	ownership	103652	5	4	3	12
		Wolcott Slough: replace SR 101 culvert at northern part of Wolcott Slough					
		with a bridge provide tidal channel connection with bridgeway over access					
		road to east of SR101 replace undersized culvert with bridge over slough to the south remove dikes, connect upper tidal channel west of SR 101 with					
Dosewallips	5	larger lagoon with a bridge on the access road	103720	5	4	2	11
Dosewallips	6	Sylopash slough tidal prism and riparian resotration	103720	4	4	2	10
Dosewallips	7	Examine seal exclusion fence and/or look at alternatives	103652	2	3	3	8
Dosewallips	10	Remove barge at mouth of Walker Creek	103632	1	4	3	8
	1.0	Remove paved area/boathouse and pilings associated with housing	<del></del>	·	· ·	-	_
		development north of Seal Rock campground to reestablish sediment drift					
Dosewallips	1	and migration corridor	104236	1	3	3	7
		Remove derelict structure fill and riprap associated with aquaculture					
Dosewallips	4	between Seal Rock and Dose	104156	1	3	3	7
		Investigate and remove if necessary riprap at Seal Rock Campground	40.4000	_			
Dosewallips	2	parking lot	104202	1	2	3	6
Dosewallips	11	Remove pilings to the south of Walker Creek  Investigate drainage at Seal Rock Campground parking lot and ameliorate if	103544	1	2	3	6
Dosewallips	3	necessary	104202	1	2	2	5
Dosewallips	3	nocessary	104202	I	۷		5
		Elevate SR101 across estuarine delta to restore tidal connectivity,					
Duckabush	17	reestablishment of native vegetation	102944	5	5	2	12
Duckabush	19	Reconnect northern distributary channel with the Duckabush River	102848	5	4	3	12
				· -	•		

1

Waterbody	ld	Action recommendation	Ecology photo reference	Spatial scale	Ecological scale	Time scale	Sum
Duckabush	16	Remove dike along north side of estuary along Robinson Road	102852	3	3	3	9
D d o n d D d o n		Reconfigure intersection of SR101 and Duckabush River Road to reconnect	102002	· ·			· ·
Duckabush	18	Pierce Creek Slough	102849	3	4	2	9
		Improve connection the small creek flowing through undersized culvert into					
Duckabush	15	the nw corner of Duckabush estuary	102852	2	3	2	7
		Restore Pierce Creek and tidal connectivity by bridging Shorewood Road					
Duckabush	20	and restoring riparian function		2	3	2	7
		Remove all levees/dikes and armoring, particularly mainstem dike, the dike					
		along the north side of the estuary, and other minor dikes to restore					
Hama Hama	42	mainstem channel, tidal channels, and estuary function	102046 101650 101652	5	5	3	13
Tidina Tidina		Relocate SR101 to the west, acquire historic estuarine properties, and	102010 101000 101002	· ·			
Hama Hama	48	restore Jorsted Creek estuary	101530	5	5	3	13
		Replace SR101 causeway/bridge with an elevated structure across the					
Hama Hama	41	entire delta	102046 101650 101652	5	5	2	12
		Remove bulkhead and fill that forms an unused part of a parking lot to the					
Hama Hama	43	north of shellfish facility to restore salt marsh habitat	101630	3	4	3	10
	-	Decree City of the decree of t	400442	_	_		
Hama Hama	38	Remove fill and relocate structures along north side of Wacketickeh estuary	102110	2	3	3	8
Hama Hama	46 47	Remove creosote pilings to north of Jorsted Creek	101538 101538	3	2 3	3	8 7
Hama Hama Hama Hama	40	Remove armoring, fill and log skid apparatus to north of Jorsted Creek Remove creosote pilings	102052	1	2	3	6
Hama Hama	44	Remove creosote pillings Remove pillings from existing spit	101646	1	2	3	6
Tiama Tiama		Remove exotic vegetation in the vicinity of shellfish facility and replant with	101040			3	0
Hama Hama	45	native conifers and shrubs	101624	2	2	2	6
Hama Hama	39	Extend bridge across the Wacketickeh to reestablish lost tidal channel	102110	1	3	2	6
				_	_	_	
Skokomish	95	Remove Nalley Island dikes/ levees, roads, borrow ditches and tide gates	153518	5	5	3	13
Skokomish	96	Remove left bank dikes/ levees, roadsborrow ditches and tide gates  Remove bulkheads and fill and restore 6 acres of salt marsh along the east		5	5	3	13
Skokomish	94	side of the delta	152522	4	4	3	11
Skokomish	98	Remove TPU maintenance/access roads with the delta	192922	5	3	3	11
Skokomish	99	Relocate TPU transmission towers to follow SR 106		5	3	3	11
- Chonomion		Relocate access road to shellfish beds that extends into intertidal zone at					
Skokomish	97	the Skokomish Delta		4	4	2	10
		Remove fill to historic shoreline midway through parking lot at Cushman					
Skokomish	89	boat launch and revegetate with native species	100434	3	3	3	9
Skokomish	91	Daylight lower Minerva Creek and restore estuary function	100428	3	3	3	9
01 -1		Remove fill and restore historic salt marsh and tidal channels at Potlatch	100110				
Skokomish	92	State Park	100418	3	3	3	9
Skokomish	93	Reconstruct hatchery trapping facility to allow better estuary function and tidal channel connectivity at Enetai	100358	2	4	2	8
SKUKUIIISII	93	Pull pilings from within the delta of old Potlatch Lagoon to restore intertidal	100300		4		0
Skokomish	100	wetland	153204	1	3	3	7
2					ŭ		
Union	61	Remove the dike and tide gates at Belfair State Park	150410	5	5	3	13
		Restore salt marsh habitat at the farm on the east bank of the mouth of the					
Union	68	Union River	151120	5	5	3	13
		Monitor borrow ditches and remnant dikes on the salt marsh of Lynch Cove					
Union	69	to ensure natural formation of dendritic tidal channels	150732	5	5	3	13
Union	60	Remove fill at Belfair State Park and restore lost salt marsh habitat	150410	5	4	3	12
Linian	cc	Remove dikes and tide gates at the Klingel Wetlands and fill dike borrow	150456	4	4	3	11
Union	66	pits	150456	4	4	3	11

Waterbody	ld	Action recommendation	Ecology photo reference	Spatial scale	Ecological scale	Time scale	Sum
		Remove levees, young alders, and aggraded delta cone on Little Mission		_		_	
Union Union	59 63	Creek to allow more natural sediment routing in estuary  Remove fill at Snooze Junction and restore lost salt marsh habitat	150356 150414	3 2	5	3	10 10
Union	03	Remove the private road east of Snooze Junction to restore tidal access to	150414		5	3	10
Union	64	salt marsh west of the road	150422	2	4	3	9
Union	62	Restore forested riparian buffers at Belfair State Park	150410	3	3	2	8
		Remove fill, pool, and infrastructure to the east of the Klingel Wetlands and					
Union	67	restore lost salt marsh habitat  Remove the small concrete pool, boat ramp, fill, and bulkhead at Lynch	150500	2	3	3	8
Union	65	Cove Community Park to restore lost salt marsh	150436	1	3	3	7
Official	0.5	Core community i and to restore root out majori	130430	ı	3	3	
		Remove intertidal fill in the vicinity of Caldervin Creek and restore lost					
Tahuya	54	mudflat and salt marsh habitats	145342, 145406	5	5	3	13
		Evaluate the bridge span at the Northshore Road crossing of the Tahuya River for impaired tidal circulation and if necessary construct a longer span					
Tahuya	57	to improve tidal flow.	145414a	5	5	2	12
		Remove the helicopter landing pad on the left bank of the Tahuya River		<del>-</del>			
Tahuya	55	downstream from Northshore Road	145550	1	4	3	8
Tahuya	56	Remove log structures in old log yard on western end of Tahuya bridge  Store floating docks on upland areas during the winter monthsrather than	145414a	2	3	3	8
		stockpiling along the right bank of the Tahuya downstream from Northshore					
Tahuya	58	Road	145414a	2	2	3	7
, .						-	
Chimacum		Action Recommendations Completed					
Little Quilcene		See Big Quilcene River for Action Recommendations					
		9					
Lilliwaup	59	Restore sediment supply from feeder bluff	101202-101122	5	5	3	13
Lilliwaup Lilliwaup	59 60	Extend SR101 bridge span and remove shoulders/fill	101202-101122 101100	5 5	5 5	3 2	13 12
Lilliwaup	60	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand		5	5	2	12
		Extend SR101 bridge span and remove shoulders/fill					
Lilliwaup	60	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor		5	5	2	12
Lilliwaup Lilliwaup Lilliwaup	60 62 67	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of	101100	5 3 2	5 4 3	3	12 10 8
Lilliwaup Lilliwaup	60	Extend SR101 bridge span and remove shoulders/fill  Remove trout pond diking, set back structures and roads and expand access road bridge  Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor  Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat	101100	5 3	5 4	3	12
Lilliwaup Lilliwaup Lilliwaup	60 62 67	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of	101100	5 3 2	5 4 3	3	12 10 8
Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup	60 62 67 61	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup	101100 100908 100928 100932	5 3 2 1	5 4 3 3 3	2 3 3 3 3	12 10 8 7
Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup	60 62 67 61	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup Creek to restore nearshore process and migration corridor	101100 100908 100928	5 3 2 1	5 4 3 3	3 3 3	12 10 8 7
Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup	60 62 67 61 63 65	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup Creek to restore nearshore process and migration corridor Remove boathouse southeast of Little Lilliwaup Creek to restore sediment	101100 100908 100928 100932 100914	5 3 2 1 1	5 4 3 3 3 3	2 3 3 3 3 3	12 10 8 7 7 7
Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup	60 62 67 61 63	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup Creek to restore nearshore process and migration corridor Remove boathouse southeast of Little Lilliwaup Creek to restore sediment drift and migration corridor	101100 100908 100928 100932	5 3 2 1	5 4 3 3 3	2 3 3 3 3	12 10 8 7
Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup	60 62 67 61 63 65	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup Creek to restore nearshore process and migration corridor Remove boathouse southeast of Little Lilliwaup Creek to restore sediment	101100 100908 100928 100932 100914	5 3 2 1 1	5 4 3 3 3 3 3	2 3 3 3 3 3	12 10 8 7 7 7
Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup	60 62 67 61 63 65	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup Creek to restore nearshore process and migration corridor Remove boathouse southeast of Little Lilliwaup Creek to restore sediment drift and migration corridor	101100 100908 100928 100932 100914	5 3 2 1 1	5 4 3 3 3 3 3	2 3 3 3 3 3	12 10 8 7 7 7
Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup	60 62 67 61 63 65 66 64	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup Creek to restore nearshore process and migration corridor Remove boathouse southeast of Little Lilliwaup Creek to restore sediment drift and migration corridor Replace undersized cuivert at SR101 with bridge	101100 100908 100928 100932 100914 100914 100912	5 3 2 1 1 1 1	5 4 3 3 3 3 3 3 3	2 3 3 3 3 3 3 2	12 10 8 7 7 7 7
Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup	60 62 67 61 63 65	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup Creek to restore nearshore process and migration corridor Remove boathouse southeast of Little Lilliwaup Creek to restore sediment drift and migration corridor Replace undersized culvert at SR101 with bridge	101100 100908 100928 100932 100914 100914 100912	5 3 2 1 1	5 4 3 3 3 3 3	2 3 3 3 3 3	12 10 8 7 7 7
Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup Dewatto	60 62 67 61 63 65 66 64	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup Creek to restore nearshore process and migration corridor Remove boathouse southeast of Little Lilliwaup Creek to restore sediment drift and migration corridor Replace undersized culvert at SR101 with bridge  Remove abandoned dikes on the salt marsh at the head of Dewatto Bay Remove fill and restore lost mudflat habitat at the Oyster House and artificial	101100 100908 100928 100932 100914 100914 100912	5 3 2 1 1 1 1 1	5 4 3 3 3 3 3 3 3	2 3 3 3 3 3 2	12 10 8 7 7 7 7 6
Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup  Lilliwaup	60 62 67 61 63 65 66 64	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup Creek to restore nearshore process and migration corridor Remove boathouse southeast of Little Lilliwaup Creek to restore sediment drift and migration corridor Replace undersized cuivert at SR101 with bridge  Remove abandoned dikes on the salt marsh at the head of Dewatto Bay Remove fill and restore lost mudflat habitat at the Oyster House and artificial boat basin on the south shore of Dewatto Bay.	101100 100908 100928 100932 100914 100914 100912	5 3 2 1 1 1 1	5 4 3 3 3 3 3 3 3	2 3 3 3 3 3 3 2	12 10 8 7 7 7 7
Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup Lilliwaup Dewatto	60 62 67 61 63 65 66 64	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup Creek to restore nearshore process and migration corridor Remove boathouse southeast of Little Lilliwaup Creek to restore sediment drift and migration corridor Replace undersized culvert at SR101 with bridge  Remove abandoned dikes on the salt marsh at the head of Dewatto Bay Remove fill and restore lost mudflat habitat at the Oyster House and artificial boat basin on the south shore of Dewatto Bay. Restore tidal processes and salt marsh habitat at the unnamed stream about one mile north of the mouth of Dewatto Bay.	101100 100908 100928 100932 100914 100914 100912	5 3 2 1 1 1 1 1	5 4 3 3 3 3 3 3 3	2 3 3 3 3 3 2	12 10 8 7 7 7 7 6
Lilliwaup	60 62 67 61 63 65 66 64 48	Extend SR101 bridge span and remove shoulders/fill Remove trout pond diking, set back structures and roads and expand access road bridge Remove bulkhead, fill, structures and groins at Lilliwaup Point to restore nearshore processes and juvenile migration corridor Remove fill and developmentseaward of southern bridge abutment of SR101 to reestablish salt marsh habitat Daylight creek to falls on right bank of Lilliwaup estuary west of SR101 bridge Remove concrete bulkhead and fill on point southeast of Little Lilliwaup Creek to restore nearshore process and migration corridor Remove boathouse southeast of Little Lilliwaup Creek to restore sediment drift and migration corridor Replace undersized cuivert at SR101 with bridge  Remove abandoned dikes on the salt marsh at the head of Dewatto Bay Remove fill and restore lost mudflat habitat at the Oyster House and artificial boat basin on the south shore of Dewatto Bay. Restore tidal processes and salt marsh habitat at the unnamed stream	101100  100908  100928  100932  100914  100914  100912  144654  144654	5 3 2 1 1 1 1 1 5 3	5 4 3 3 3 3 3 3 3 5 5	2 3 3 3 3 3 3 2	12 10 8 7 7 7 7 6

Waterbody	ld	Action recommendation	Ecology photo reference	Spatial scale	Ecological scale	Time scale	Sum
		Remove old railroad grade and pilings from the head of Anderson Cove.					
Big Anderson	42	Assess impacts to Holly Road.	151622	3	5	3	11
Big Anderson	45	Restore historic salt marsh and lagoon habitats at the community of Holly.	151644	3	3	3	9
		Remove the county road along the north shore of Anderson Cove (traffic					
		could be rerouted to the road immediately to the north) and revegetate the					
Big Anderson	44	riparian zone with native plants.	151622	2	3	3	8
Big Anderson	43	Eradicate invasive Japanese Knotweed from Anderson Cove.	151622	1	2	1	4
		Restore natural tidal influence and sediment transport in the Big Beef Creek					
Big Beef	31	subestuary.	145346	5	5	2	12
		Restore tidal processes and lost salt marsh habitat at the mouth of Johnson					
Big Beef	30	Creek	145216	2	5	3	10